BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

WORK SLIP

NAME OF WORK:- Modified Estimate For Additional Works to Public Toilet at NES Circle in Yelahanka Upanagara Ward No-04.

Estimated Cost RS:-30.00 Lakh,s

Agency:-Sri.Lokanatha Reddy N

Approved Tender Amount RS:- 28,07,328.00 (Excluding GST 12%)

Tender Premium:- 4.90% Above

S.No.s	Tender Item S.No.s	Description of Work	Unit	Qty as per Sanctioned Estimate			Qty as per Tender			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total Amount	Excess	Savings	Remarks
				Qty	Rates	Amount	Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	1	KSRB M200-14.2.Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all lifts complete asper specifications Dismantling brick/Tile work B. In cement mortar. Pg No.139 Item No.18.23	Cum	2.06	379.08	780.90	2.06	397.65	819.16	2.06	2.06	397.65	819.16	-			819.16			Item operated
2	2	37.51: Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms) No. KBS Pg No 270 ,Item No 37.51.	Sqm	6.36	379.08	2410.95	6.36	397.65	2529.05	6.36	6.36	397.65	2527.07	-			2527.07		1.99	Item operated
3	3	Dismantling plastering and removing the debris with a lead upto 200m. (P.No.270, I.No. 37.50)	Sqm	10.30	39.96	411.59	10.30	41.92	431.78	10.30	10.30	41.92	431.78	-			431.78			Item operated
4	5	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) / 2.3.5 Pg No 6,Item No 2.4	Cum	38.10	484.92	18475.45	62.15	508.68	31614.46	56.73	56.73	508.68	28855.89	-			28855.89		2758.57	Item operated
	59			24.05	484.92	11662.33														
	6	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification No. KBSPg No 7, Item No 2.15	Cum	1.56	2623.32	4092.38	1.56	2751.86	4292.90	10.01	1.95	2751.86	5366.00	8.06	2751.86	22186.00	27552.00	23259.10		Item operated
6	7	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2Pg No.13 Item No 4.3	Cum	6.07	5913.30	35893.73	6.99	6203.05	43359.32	10.49	8.74	6203.05	54199.15	1.75	6203.05	10852.00	65051.15	21691.83		Item operated
	60			0.93	5913.30	5499.37														

7	8	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastiniser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, Specification No. KBS 4.1, 4.2. (P.No.13, LNo.4.5 of PWD SR 2018-19)	Cum	17.57	6426.15	112907.46	17.57	6741.03	118439.90	16.66	16.66	6741.03	112321.57				112321.57		6118.33	Item opera
8	9	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerdressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing completeas perspecifications.KBS 5.1.13 Pg No 25 item No 5.6	Cum	12.02	4963.68	59663.43	12.02	5206.90	62586.94	10.46	10.46	5206.90	54465.48				54465.48		8121.46	Item operate
9	10	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete anper specifications. Specification. No. KBS 2.9, Pg No.7, Item No.2.10	Cum	16.69	217.08	3623.07	16.69	227.72	3800.65	39.71	20.86	227.72	4750.81	18.85	227.72	4292.00	9042.81	5242.16		Item operate
10	4	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 136,Item	Cum	3.22	67.09	216.03	3.22	70.38	226.62	21.50	21.50	70.38	1513.14				1513.14		2388.02	Item Operated
	11			21.41	67.09	1436.40	21.41	70.38	1506.84											
	56			6.75	67.09	452.86	30.80	70.38	2167.70											
	66			24.05	67.09	1613.51														
11	12	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No16, Item No 4.28	Sqm	16.32	278.64	4547.40	77.18	292.29	22558.94	11.10	11.10	292.29	3244.42				3244.42		19314.52	Item operated
	61			60.86	278.64	16958.03														
12	13	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 16, Item No 4.31	Sqm	27.24	386.64	10532.07	27.24	405.59	11048.27	8.28	8.28	405.59	3358.29				3358.29		7689.99	Item operated
13	14	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton. Specification No.KBS 4.6.2, Pg No 16, Item No 4.32	Sqm	46.67	492.48	22984.04	46.67	516.61	24110.19	6.50	6.50	516.61	3357.97				3357.97		20752.22	Item operate
14	17	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.Specification No. KBS 4.6.2, Pg No 17, Item No 4.34	Sqm	50.51	315.36	15928.83	50.51	330.81	16709.21	8.28	8.28	330.81	2739.11				2739.11		13970.11	Item operat

15	19	KSRB 4.2.1 Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340Kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticizers @ 3 liters confirming to is 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns/pillars, ports, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1. 4.6, Pg No. 14, Item No. 4.10	Cum	7.82	7038.46	55040.76	7.82	7383.34	57737.72	3.50	3.50	7383.34	25873.99				25873.99		31863.73	Item operated
16	20	KSRB 4.2.8 Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340Kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregates @ 0.47cum,with superplasticiser @3lts confirming to IS 9103-1999 Reaffirmed 2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thickness) including attached planters ,columns, pillars,posts,struts,butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window sills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. No. KBS 4.1. 4.6, Pg No. 14, Item No. 4.12	Cum	3.54	7290.10	25806.95	3.54	7647.31	27071.48	0.32	0.32	7647.31	2477.73				2477.73		24593.75	Item operated
17	21	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25. Pg No.19 Item No.4.49.2	Cum	12.45	6698.26	83393.34	12.45	7026.47	87479.55	0.83	0.83	7026.47	5817.92				5817.92		81661.63	Item operated
18	23	KSRB 4.9.2 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3Pg No.18 Item No.4.46.2	Tonne,s	1.82	94410.36	171826.86	1.82	99036.47	180246.38	1.17	1.17	99036.47	116248.70				116248.70		135303.93	Item Operated
	60			0.72	94410.36	67975.46	0.72	99036.47	71306.26											
19	24	KSRB 5-14.1 Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.4, Pg No. 27 Item No. 5.27.1	Sqm	91.94	984.96	90557.22	91.94	1033.22	94994.25	41.93	41.93	1033.22	43317.75				43317.75		51676.50	Item operated

20	25	KSRB 5-15 : Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S :2185 (Part I) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications. KBS No.5.4, Pg No 27,Item No 5.28	Sqm	44.53	875.88	39002.94	44.53	918.80	40914.16	21.60	21.60	918.80	19846.08				19846.08		21068.08	Item operated
21	26	KSRB15-3.5 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners, wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 116,Item No 15.16	Sqm	112.65	281.88	31753.78	112.65	295.69	33309.48	98.52	98.52	295.69	29131.38				29131.38		4178.10	Item operated
22	27	KSRB 15.3.2 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications .Pg No. 115 Item No.15.10	Sqm	84.18	220.32	18546.54	84.18	231.12	19455.68	72.11	72.11	231.12	16666.06				16666.06		2789.62	Item operated
23	28	KSRB15-5.1 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadoing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications . Pg.No-117, Item No-15.30.	Sqm	109.97	221.40	24347.36	109.97	232.25	25540.53	140.43	140.43	232.25	32614.87				32614.87	7074.34		Item operated
24	30	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materrial cost oflabour and scaffolding etc. ,complete as per specification. Pg No.128 Item No.15.106	Sqm	128.48	84.24	10823.16	128.48	88.37	11353.78	43.20	43.20	88.37	3817.58				3817.58		7536.19	Item operated
25	31	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after throughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. PgNo. 119, I.No. 15.51.2	Sqm	84.18	97.20	8182.30	84.18	101.96	8582.99	60.40	60.40	101.96	6158.38				6158.38		2424.61	Item operated
26	33	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer (P. No. 120, I.No. 15.53.2 ofSR 2018-19).	Sqm	112.65	110.16	12409.52	112.65	115.56	13017.83	165.70	26.76	115.56	3092.67	138.93	115.56	16055.00	19147.67	6129.84		Item operated

27	34	KSRB 14.9-1 Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping - under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications Specification No. KBS 14.4, Pg No 104,Item No 14.13	Sqm	42.00	681.48	28622.16	42.00	714.87	30024.54	68.21	52.50	714.87	37530.68	15.71	714.87	11232.00	48762.68	18738.14		Item operated
28	35	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 900x900x 12mm thick fixed on bed of 12mm thick cement mortar for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc including Cost of all materials mortar labour etc complete as perspecificationPg no. 109 Item No.14.45.1	Sqm	18.09	1227.96	22213.80	18.09	1288.13	23302.27	54.35	22.61	1288.13	29127.84	31.74	1288.13	40885.00	70012.84	46710.57		Item operated
29	36	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 Pg No 108,Item No14.41.2	Sqm	66.29	1762.56	116840.10	66.29	1848.93	122565.57	95.45	82.86	1848.93	153206.96	12.58	1848.93	23269.00	176475.96	53910.39		Item operated
30	37	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm.	Sqm	30.32	2137.32	64803.54	30.32	2242.05	67978.96	14.07	14.07	2242.05	31545.64				31545.64		36433.31	Item operated
31	38	Providing half nosing for 20mm thick granite slab using required machinery including cost andconveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification page no 111 item no 14.56	R.mtr	24.65	194.40	4791.96	24.65	203.93	5026.87	17.30	17.30	203.93	3527.99				3527.99		1498.89	Item operated
32	39	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools andequipments, all complete as per the specification, page no 69 item no 10.5.1	Sqm	24.60	568.08	13974.77	24.60	595.92	14659.63	141.71	90.75	595.92	54079.74	50.96	595.92	30368.00	84447.74	41183.95		Item operated
	62			48.00	568.08	27267.84	48.00	595.92	28604.16										

33	42	Providing and fixing 65mmx90mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM), U.V-stabilized Isopthalic Gelcoat and Isopthalic resin. The thickness of the GRP skin shall not be less than 2.0 mm. The doorframe consists of four segments, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screws. The GRP frame shall be provided with wooden reinforcement of 6 locations fto high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/Plaster with fibre reinforcement. Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat hold fast shall be provided with the frame. Page No. 63, Item No. 9.95	Mtr	25.20	486.00	12247.20	25.20	509.81	12847.21	85.50	31.50	509.81	16059.02	54.00	509.81	27530.00	43589.02	30741.80		Item operated
34	44	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gm E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm.Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforcement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Coemposites Design Centre Standards and specifications and the door shutters tested in confirmation to IS 4020-1994. The finish of shutter will be plain coular White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot. P.No.60, I.No.9.94	Sqm	9.45	4104.00	38782.80	9.45	4305.10	40683.20	23.63	11.81	4305.10	50854.00	11.81	4305.10	50854.00	101708.00	61024.81		Item operated
35	40	KSRB 9-27.1 : Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m,including cost of materials, labour, complete as per specifications. Pg No 60,Item No 9.80	No.s	3.00	1475.28	4425.84	3.00	1547.57	4642.71	1.00	1.00	1547.57	1547.57				1547.57		3095.14	Item operated
36	41	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineriescomplete as per specifications. Specification No. KBS 9.33 Pg No 53,Item No 9.11	cum	0.37	94612.32	35006.56	0.37	99248.32	36721.88	0.08	0.08	99248.32	8217.76				8217.76		28504.12	Item operated
37	43	KSRB 9.5-2 Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS9.34, Pg No. 53, Item No. 9.15	sqm	7.56	5099.76	38554.19	7.56	5349.65	40443.35	1.58	1.58	5349.65	8425.70				8425.70		32017.66	Item operated

38	45	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications. Pg no:121.Item no:15.60.1	sqm	6.03	104.76	631.70	6.03	109.89	662.64	3.15	3.15	109.89	346.15				346.15		316.48	Item operated
39	46	Providing & fixing of 3 Track - 2 Panel Sliding Windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free, gasketo having isolatnt drainage and reinforced with Galvanized Iron profile through-out the window Frame. The outer frame having a overall size of 108 mm width X 45 mm height with reinforcement of 1 mm thickness and sash with overall size of 39 mm x 75 mm with GI reinforcement of 2 mm and mesh sash of size 30mm.Windows shall be provided with 5mm plain float glass, standard hardware and single pointlocking system with touch lock. Wall thickness of frame and sash shall be of 2mm - 2.5mm.	sqm	4.50	5637.60	25369.20	4.50	5913.84	26612.28	1.22	1.22	5913.84	7185.32				7185.32		19426.96	Item operated
40	48	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specification.Specification No. KBS 7.12 Pg No.34 Item No.7.9	sqm	94.50	102.60	9695.70	94.50	107.63	10171.04	25.52	25.52	107.63	2746.18				2746.18		9865.90	Item operated
	54			22.68	102.60	2326.97	22.68	107.63	2441.05											
41	49	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Pg no:123.Item no:15.74		12.60	102.60	1292.76	12.60	107.63	1356.14	5.47	5.47	107.63	588.47				588.47		767.67	Item operated
42	50	KSRRB M300- Contruction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305	cum	14.57	351.00	5114.07	14.57	368.20	5364.67	42.23	18.21	368.20	6705.84	24.01	368.20	8842.00	15547.84	10183.17		Item operated
43	51	Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite, laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. (P.No. 108, I.No. 14.52 of PWD SR 2018-19)	Sqm	32.00	3807.00	121824.00	32.00	3993.54	127793.28	21.13	21.13	3993.54	84373.52				84373.52		43419.76	Item operated

44	52	Providing and fixing of Aluminium composite panel of approved make and colour for wall cladding for straight Brick/Rockbone walls & columns/beams with necessary aluminium frame works at required level made out of 50x25x3mm C section or equalent. The panel should consist of 2.5 mm thermoplastic core of antitoxic LDPE sandwiched between 0.25 skins thick aluminium sheet making a total panel thickness of 3mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done using weather sealant of Dow Corning 789 with necessary rods etc., complete.	Sqm	137.22	4255.20	583898.54	137.22	4463.70	612508.91	139.57	139.57	4463.70	622987.45				622987.45	10478.54		Item operated
45	53	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including curing etc., complete. (P.No. 110, I.No. 14.49 of PWD SR 2018-19)	Sqm	6.40	3825.36	24482.30	6.40	4012.80	25681.92	7.90	7.90	4012.80	31701.12				31701.12	6019.20		Item operated
46	57	Health Faucets	No,s	19.00	3000.00	57000.00	19.00	3147.00	59793.00	19.00	19.00	3147.00	59793.00				59793.00			Item operated
47	58	KSRB13-6.6-1 : Providing and fixing unplasticised PVC connection pipe with brass union 15mm nominal bore 300 mm length of PVC connection including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS	Set	22.00	252.72	5559.84	22.00	265.10	5832.20	22.00	22.00	265.10	5832.20				5832.20			Item operated
48	59	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticizers @ 3 liters confirming to is 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, ports, struts, buttresses, bed blocks, ancher blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.10	cum	7.20	6243.17	44950.82	7.20	6549.09	47153.45	4.73	4.73	6549.09	31003.39				31003.39		16150.06	Item operated
49	63	Submersible Single phase 4 inch/100mm for sump page no XLIII Sl no 10	No,s	1.00	14924.00	14924.00	1.00	15655.28	15655.28	1.00	1.00	15655.28	15655.28				15655.28			Item operated
53	64	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet europeon type (pedestal type, p-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers, 10 litre low level P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets , 40mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design,painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications. Specification no.KBS 11 page no 79 item No.12.5	Each	5.00	5352.48	26762.40	5.00	5614.75	28073.75	13.00	6.25	5614.75	35092.19	6.75	5614.75	37900.00	72992.19	44918.44		Item operated

54	66	KSRB 11.11.1 : Providing and fixing white vitreous china clay,flat back wash basin size 630x450mm with a Single 15mm C.P brass pillar taps with C.I / M.S brackets,32mm C.P brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as perspecifications. Specification No. KBS 11.page no 82 item No.12.23	Unit	4.00	3400.92	13603.68	4.00	3567.57	14270.28	3.00	3.00	3567.57	10702.71				10702.71		3567.57	Item operated
55	67	KSRB 11-9.2 : Providing and fixing white vitreous china clay,flat back or half stall urinal basin of size 580x380x350mm in the range of two with 7.5 litres P.V.C automatic flushing cistern, C.I / M.S brackets ,standard flush pipe and C.P brass spreaders with brass unions and G.I clamps, C.I trap with outlet grating and other couplings in C.P brass, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications.Specification No. KBS 11. page no 81 item No.12.16	Unit	18.00	8718.84	156939.12	18.00	9146.06	164629.08	7.00	7.00	9146.06	64022.42				64022.42		100606.66	Item operated
56	68	KSRB 11.15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. page no 84 item No.12.41	Unit	4.00	1226.88	4907.52	4.00	1287.00	5148.00	8.00	5.00	1287.00	6435.00	3.00	1287.00	3861.00	10296.00	5148.00		Item operated
57	69	KSRB 11.17.1 Providing and fixing C.P brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as perspecifications.	Unit	4.00	798.12	3192.48	4.00	837.23	3348.92	8.00	5.00	837.23	4186.15	3.00	837.23	2512.00	6698.15	3349.23		Item operated
58	70	Providing and fixing 7.5 cms to 15.00cms dia NP grating 100 mm dia.	Each	18.00	162.00	2916.00	18.00	169.94	3058.92	13.00	13.00	169.94	2209.22				2209.22		849.70	Item operated
59	71	KSRB-13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with marbole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 3000 Litre capacity) as per IS 12701 1996. Specification No.KBS 13.22 page no 96 item no 13.71	Each	2.00	22122.72	44245.44	2.00	23206.73	46413.46	2.00	2.00	23206.73	46413.46				46413.46			Item operated
60	72	KSRB-13-6.1-2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS13.2.2/ 13.3 page no 93 item no 13.24	Each	18.00	186.84	3363.12	18.00	196.00	3528.00	20.00	20.00	196.00	3920.00				3920.00	392.00		Item operated
61	73	KSRB-13-6.2-2 : Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.2/ 13.3 page no 93 item no 13.27	Each	35.00	152.28	5329.80	35.00	159.74	5590.90	15.00	15.00	159.74	2396.10				2396.10		3194.80	Item operated
62	74	KSRB-13-6.3-2 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification no. KBS 13.2.6/ 13.3 page no 93 item no 13.33	Each	2.00	362.88	725.76	2.00	380.66	761.32	2.00	2.00	380.66	761.32				761.32			Item operated

63	75	Providing and fixing Chorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good thewalls etc.,) page no 99 item no13.56.2 and	Mtr	15.00	253.80	3807.00	15.00	266.24	3993.60	18.00	18.00	266.24	4792.32				4792.32	798.72		Item operated
64	76	Providing and fixing Chorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good thewalls etc.,) page no 99 item no13.56.2 and	Mtr	20.00	316.44	6328.80	20.00	331.95	6639.00	25.00	25.00	331.95	8298.75				8298.75	1659.75		
65	77	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.55qmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet.	Point	10.00	200.00	2000.00	10.00	209.80	2098.00	12.00	12.00	209.80	2517.60				2517.60	419.60		Item operated
66	78	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.55qmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet.	Point	12.00	275.00	3300.00	12.00	288.48	3461.76	15.00	15.00	288.48	4327.20				4327.20	865.44		Item operated
67	79	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe .....mm dia mm thick confirming to IS2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of unction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary	Rmtr	25.00	53.00	1325.00	25.00	55.60	1390.00	30.00	30.00	55.60	1668.00				1668.00	278.00		Item operated
68	80	Groove cutting Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive paste etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduitwhere ever necessary.	Rmtr	30.00	51.00	1530.00	30.00	53.50	1605.00	35.00	35.00	53.50	1872.50				1872.50	267.50		Item operated

69	81	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of's thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduitwhere ever necessary.	Rmtr	20.00	54.00	1080.00	20.00	56.65	1133.00	25.00	25.00	56.65	1416.25				1416.25	283.25		Item operated
70	82	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall		5.00	95.00	475.00	5.00	99.66	498.30	5.00	5.00	99.66	498.30				498.30			Item operated
71	83	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall	Each	5.00	105.00	525.00	5.00	110.15	550.75	5.00	5.00	110.15	550.75				550.75			Item operated
72	84	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mmthik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654	No	3.00	132.00	396.00	3.00	138.47	415.41	3.00	3.00	138.47	415.41				415.41			Item operated
73	85	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1293	Each	4.00	150.00	600.00	4.00	157.35	629.40	4.00	4.00	157.35	629.40				629.40			Item operated
74	86	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/niches as per IS 1293 and IS 3854,16Amps Combined switch and socket with indication	No	5.00	194.00	970.00	5.00	203.51	1017.55	6.00	6.00	203.51	1221.06				1221.06	203.51		Item operated
75	87	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments	Rmtr	70.00	20.05	1403.50	70.00	21.03	1472.10	85.00	85.00	21.03	1787.55				1787.55	315.45		Item operated
76	88	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments	Rmtr	20.00	32.00	640.00	20.00	33.57	671.40	25.00	25.00	33.57	839.25				839.25	167.85		Item operated
77	89	Supplying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flourent Tube. 1X4' Tube light Fitting	Nos	30.00	300.00	9000.00	30.00	314.70	9441.00	30.00	30.00	314.70	9441.00				9441.00			Item operated
78	90	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Each	21.00	1200.00	25200.00	21.00	1258.70	26432.70	25.00	25.00	1258.80	31470.00				31470.00	5037.30		Item operated
79	91	Supplying, fixing and wiring electronic Trivector Meter(ETV) 5 to 20Amps single phase Class-1 Accuracy with Temper Proof Energy Meter	Each	2.00	1150.00	2300.00	2.00	1206.35	2412.70	2.00	2.00	1206.35	2412.70				2412.70			Item operated
		Grand Total RS				2597222.30			2724422.53								2386988.35	406491.86	743926.04	

Percentage of excess comparing to the sanctioned Estimated cost = $\frac{406491.86}{2724422.53}$ x 100 = 14.92

Agency Signature

Assistant Engineer
Ward No-04

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬೆ.ಮ.ನ.ಪಾ. ಬೆಂಗಳೂರು-106

Executive Engineer
Yelahanka Division

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ